Intended Learning Outcomes

The main intent of mathematics instruction at the secondary level is for students to develop mathematical proficiency that will enable them to efficiently use mathematics to make sense of and improve the world around them.

The Intended Learning Outcomes (ILOs) describe the skills and attitudes students should acquire as a result of successful mathematics instruction. They are an essential part of the Mathematics Core Curriculum and provide teachers with a standard for student learning in mathematics.

The ILOs for mathematics at the secondary level are:

1. **Develop positive attitudes toward mathematics, including the confidence, creativity, enjoyment, and perseverance that come from achievement.**

2. **Become proficient problem-solvers by posing appropriate questions, selecting appropriate methods, employing a variety of strategies, and exploring alternative approaches.**

3. **Think logically, using inductive reasoning to formulate reasonable conjectures and using deductive reasoning for justification, formally or informally.**

4. **Cooperatively and independently explore mathematics, using inquiry and technological skills.**

5. **Make connections between mathematical ideas, between mathematics and other disciplines, and to life.**

6. **Communicate mathematics through writing, modeling, and visualizing, using precise mathematical language and symbolic notation.**